GENERAL COATINGS MANUFACTURING CORP.

TECHNICAL DATA SHEET
FOR PROFESSIONAL CONTRACTOR USE ONLY

ULTRA-GUARD 5700 HS
HIGH SOLIDS, ELASTOMERIC SILICONE

ULTRA-GUARD 5700 HS is a single-component silicone elastomeric roof coating used as a restoration system and to protect spray polyurethane foam. Ultra-Guard 5700 HS is a high solids, rapid cure polymer that has superior properties including low temperature flexibility, UV protection and ponding water resistance.

Ultra-Guard 5700 HS has good salt, acid, solvent and fair alkali resistance as well as excellent heat resistance up to 250°F (121°C). Ultra-Guard 5700 HS's dry time may be shortened with the addition of an accelerator package.

RECOMMENDED USES

- Polyurethane Foam
- Roof Membranes
- BUR
- Metal

PACKAGING

5-gallon pail

50-gallon drum

COLOR

White, Light Gray, Light Tan, and Medium Gray

TECHNICAL DATA

PHYSICAL PROPERTIES (BASED ON DRAW DOWN FILM)

Property	ASTM-Test Method	Value
Total Solids by Volume	ASTM D2697	94% ± 2
Total Solids by Weight	ASTM D1644	94% ± 2
Flash Point	ASTM D56	142°F
Viscosity	Brookfield	10,000-15,000 cP
Elongation	ASTM D412	250%
Tensile Strength @ 100%	ASTM D412	300 psi
Tear Resistance Die C	ASTM D624	45 lbs/in
Impact Resistance	ASTM D2794	>160
Permeability (U.S. perms)	ASTM E96	7.9
Durometer Hardness: Shore A	ASTM D2240	45 - 55
Weathering QUV 5,000 hours,	ASTM D822	No Degredation
Volatile Organic Compound	ASTM D2369-81	<50 g/liter (0.40 lbs/gal)

The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

CREDENTIALS AND CERTIFICATIONS

UL 790 Class A as an integral component of numerous roof deck assemblies, File #14330

INTERTEK CCRR-1026

Miami Dade NOA 16-0314.03

	Initial	Weathered
Solar Reflectance	0.88	0.67
Thermal Emittance	0.91	0.90
Rated Product ID		0684-0011
Licensed Manufacturer ID		0684
Classification		Standard Product

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

REQUIREMENTS

Ultra-Guard 5700 HS should only be applied by professional applicators. Consult General Coatings Manufacturing Corp. for specific application requirements and end uses.

EQUIPMENT

Ultra-Guard 5700 HS may be sprayed, brushed, or rolled. A high- pressure airless paint pump capable of producing a minimum of 4500 psi at the spray gun should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump. Always use components rated for pump pressure. Hoses should have a maximum length of 200 feet, a minimum inside diameter of 1/2", a 3/8" whip may be used at the spray gun. The spray gun should be high pressure (5000 psi) with reverse-a- clean spray tip, having a minimum orifice of .019.

COVERAGE RATE (OVER SPRAY FOAM)

Property	Value
Coverage	15 mils at 1 gallon per 100 square feet
Performance, 10 years	1.5 to 2 gallons per 100 square feet
Performance, 15 years	2 to 2.5 gallons per 100 square feet
Performance, 20 years	2.5 to 3 gallons per 100 square feet
Dry Time, 75°F (24°C), 50% RH	> 3 hours
*Dry Time w/Accelerator Pkg. 75 F, 50% RH	< 2 hours
Recoat Time	7 to 10 days between coats
Final Cure	30 days

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APPLICATION

Ultra-Guard 5700 HS is designed to be applied through high pressure airless spray equipment. Ultra-Guard 5700 HS has a theoretical dry film thickness is 15 mils when applied at 1 gallon per 100 square feet. The minimum recommended thickness when used as a protective membrane over polyurethane foam is 22 dry mils.

PERSONAL PROTECTIVE EQUIPMENT

Since the coatings are atomized into a very fine particle distribution during spray application, it is essential that maximum effort is made to protect the spray mechanic and others near the workplace from undue exposure.

JOB-SITE PROTECTION

Overspray from Ultra-Guard 5700 HS can carry considerable distances and attention should be given to the following:

1. Post warning signs a minimum of 100 feet from the work area.
2. Cover all intake vents near the work area.
3. Minimize or exclude all personnel not directly involved with the spray application.
4. No welding, smoking or open flames.
5. Have CO_2 or other dry chemical fire extinguisher available at the jobsite.
6. Provide adequate ventilation.

SHELF LIFE AND STORAGE

Ultra-Guard 5700 HS has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 32-100°F (15-35°C). Keep containers closed and store in a dry, cool place away from direct sunlight, heat, sparks, open flame, and moisture.

FREIGHT CLASSIFICATION

Liquid Plastic Material - NOIBN

HEALTH AND SAFETY

GCMC is committed to the health and safety of our customers. GCMC products shall only be installed by certified contractors. Applicators are required to follow all proper handling, safety and installation procedures. Safety Data Sheets (SDS) are available on this material. Any individual who may come in contact with these products should read and understand the SDS. Avoid breathing of vapor or spray mist. Care should be taken to exclude all personnel not directly involved with the spray application. Ultra-Guard 5700 HS should not be applied when the wind is of sufficient velocity to cause overspray of adjacent areas, buildings or people.

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VAPOR INHALATION
The best form of protection against organic solvents or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommend use of NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators is acceptable. Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation. Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT
To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician.

EYE CONTACT
Wear a full-face mask or OSHA-approved protective goggles. Eye Contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

FLAMMABILITY
Flash point is 142°F (61°C). Avoid open flame or spark sources. Avoid excessive heat. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the drum. In case of fire, use CO_2, steam, dry chemicals or water fog.

TECHNICAL SERVICES
Additional information, such as brochures, technical assistance, roof energy evaluations, life cycle cost analysis, and other roof management services are also available from a General Coatings Manufacturing Corp. Technical Consultant.